

CLAIM AMENDMENT

Claims 1 to 6. (canceled)

7. (new) A scheduling method for loading and unloading containers at a terminal, the method comprising steps of:

establishing a yard information database by acquiring ship quay location data, container storage site data and a bay plan, wherein the bay plan includes information of specific cargo shipping position (S100),

establishing a container database including container loading-unloading schedules, container inventory remaining on a ship, and while loading-unloading containers, inputting outer source container loading-unloading schedule into said container database (S102),

setting shipping schedules, to facilitate efficient unloading and shipping operations, by establishing a shipping order database according to input from said container database, said bay plan, tidal information and a navigation schedule (S104),

unloading cargo from one of stand-by container ships by (S200):

retrieving said yard information database,

receiving input data of port entering from said outer source,

assigning an available quay location in response to said input data,

identifying containers to be unloaded by means of said container database, and

assigning an available container storage site based on the yard information database,

loading cargo to one of stand-by container ships by (S300):

retrieving said yard information database,

•receiving input data of shipping order from said outer source, and

identifying containers to be loaded by means of said container database,
location of a container storage site, a cargo destination and a ship quay
location, and

storing and maintaining, based on the unloading (S200) and loading (S300) steps, the
bay plan including information of loaded or unloaded containers, location of the container
storage site, the cargo destinations and the ship quay location (S400).

8. (new) A scheduling method for loading-unloading containers as claimed in claim 7,
wherein said information includes container identification number, indicating destination,
shipping cell position, gateway, initial loading port code, loading port code, unloading port
code, selection of unloading port code, final unloading port code, final unloading destination
port code, and before/after altered unloading port information for the containers remained on
the ship.

9. (new) A computer readable recording medium recorded a computer programming of
scheduling method for loading and unloading containers at a container terminal, the medium
comprising:

means for establishing a yard information database by acquiring ship quay location
data, container storage site data and a bay plan, wherein the bay plan includes information of
specific cargo shipping position,

means for establishing a container database including container loading-unloading
schedules, container inventory remaining on a ship, and while loading-unloading containers,
inputting outer source container loading-unloading schedule into said container database,

means for setting shipping schedules, to facilitate efficient unloading and shipping
operations, by establishing a shipping order database according to input from said container

database, said bay plan, tidal information and a navigation schedule,

means for unloading cargo from one of stand-by container ships by retrieving said yard information database, receiving input data of port entering from said outer source, assigning an available quay location in response to said input data, identifying containers to be unloaded by means of said container database, assigning an available container storage site based on the yard information database,

means for loading cargo to one of stand-by container ships by retrieving said yard information database, receiving input data of shipping order from said outer source, identifying containers to be loaded by means of said container database, location of a container storage site, a cargo destination and a ship quay location, and

means for storing and maintaining, based on the unloading-loading steps, said bay plan including information of loaded or unloaded containers, location of the container storage site, the cargo destinations and the ship quay location.